

APPENDIX B

Table B1. Hypervolume averages of all selection strategies for small-sized test projects after ranking

flex		bash		commons-dbutils		commons-cli	
εRG-avgHD-step	7.69E-04	SIMAB-avgCA	6.42E-03	εRG-avgHD-step	4.96E-05	εRG-HD	1.29E-04
εRG-avgHD	8.97E-04	εRG-HD	6.61E-03	εRG-HD	8.25E-05	εRG-avgHD-step	1.45E-04
εG-avgHD	9.01E-04	εRG-avgHD-step	6.88E-03	εRG-avgHD	1.60E-04	εRG-avgHD	2.36E-04
Greedy-avgHD-step	9.03E-04	εG-avgHD	7.50E-03	Roulette-avgHD-step	1.85E-04	Roulette-HD	2.70E-04
εRG-HD	9.20E-04	Greedy-HD-min	7.78E-03	Roulette-HD	3.43E-04	Greedy-avgHD-step	2.80E-04
εG-avgHD-step	9.21E-04	εRG-avgHD	7.80E-03	Greedy-avgHD-step	6.45E-04	Roulette-avgHD-step	3.04E-04
Greedy-HD	9.87E-04	εG-avgHD-step	8.39E-03	εRG-HD-min	8.07E-04	Greedy-HD-min	3.25E-04
Roulette-avgHD-step	1.11E-03	εG-HD	8.47E-03	εG-HD	1.07E-03	Roulette-avgHD	4.17E-04
Greedy-HD-min	1.22E-03	εRG-HD-min	8.67E-03	Roulette-avgHD	1.18E-03	Greedy-HD	5.59E-04
εG-HD-min	1.24E-03	Greedy-avgHD	8.77E-03	εG-avgHD-step	1.25E-03	εG-avgHD	6.50E-04
εG-HD	1.28E-03	Roulette-HD	9.20E-03	εG-avgHD	1.69E-03	εG-HD	8.08E-04
Roulette-avgHD	1.34E-03	Roulette-avgHD-step	9.43E-03	Roulette-HD-min	1.93E-03	Roulette-HD-min	9.65E-04
Roulette-HD-min	1.40E-03	Greedy-avgHD-step	9.44E-03	Greedy-avgHD	2.07E-03	εRG-HD-min	9.74E-04
Roulette-HD	1.41E-03	SIMAB-exmCA	9.59E-03	Greedy-HD-min	2.56E-03	εG-avgHD-step	1.11E-03
Greedy-avgHD	1.45E-03	Roulette-HD-min	1.01E-02	εG-HD-min	2.64E-03	εG-HD-min	1.18E-03
SIMAB-avgCA	1.67E-03	εG-HD-min	1.02E-02	Greedy-HD	4.23E-03	SIMAB-avgCA	2.05E-03
εRG-HD-min	1.72E-03	Roulette-avgHD	1.13E-02	SIMAB-avgCA	4.64E-03	SIMAB-exmCA	8.36E-03
SIMAB-exmCA	3.32E-03	Greedy-HD	1.47E-02	SIMAB-exmCA	1.35E-02	Greedy-avgHD	9.41E-03

Table B2. Hypervolume averages of all selection strategies for medium-sized test projects after ranking

commons-validator		commons-io		commons-net		threetenbp	
εRG-avgHD-step	9.12E-05	εRG-avgHD-step	1.02E-05	εRG-avgHD-step	8.80E-05	εRG-HD	2.77E-04
εRG-HD	4.82E-04	Roulette-avgHD-step	1.02E-05	εRG-avgHD	1.03E-04	εRG-avgHD-step	3.07E-04
Greedy-avgHD	1.35E-03	εRG-HD	3.29E-05	Roulette-avgHD	1.14E-04	Roulette-avgHD-step	3.21E-04
Greedy-HD	1.40E-03	Roulette-avgHD	5.72E-05	εRG-HD	1.65E-04	Roulette-avgHD	3.64E-04
εRG-avgHD	1.73E-03	Roulette-HD	7.10E-05	Roulette-HD	1.86E-04	Greedy-HD	3.84E-04
εG-avgHD	1.94E-03	εRG-HD-min	4.31E-04	Roulette-avgHD-step	2.35E-04	εRG-avgHD	4.11E-04
Greedy-avgHD-step	2.13E-03	εG-avgHD	4.37E-04	εG-avgHD	7.18E-04	εG-avgHD	4.87E-04
Roulette-avgHD-step	2.14E-03	εG-HD	4.85E-04	εG-avgHD-step	7.48E-04	Greedy-avgHD	5.57E-04
Greedy-HD-min	2.15E-03	εRG-avgHD	5.22E-04	εRG-HD-min	8.41E-04	Greedy-HD-min	5.61E-04
εG-avgHD-step	2.29E-03	εG-avgHD-step	5.43E-04	εG-HD	9.38E-04	Greedy-avgHD-step	5.83E-04
εG-HD	2.52E-03	SIMAB-avgCA	7.97E-04	Greedy-HD-min	9.61E-04	Roulette-HD	5.84E-04
Roulette-HD	2.64E-03	SIMAB-exmCA	8.25E-04	Greedy-avgHD	1.01E-03	εRG-HD-min	5.95E-04
Roulette-HD-min	2.78E-03	Greedy-avgHD-step	8.28E-04	Roulette-HD-min	1.34E-03	εG-avgHD-step	6.09E-04
Roulette-avgHD	3.07E-03	Greedy-avgHD	1.03E-03	Greedy-HD	1.41E-03	SIMAB-avgCA	7.89E-04
SIMAB-avgCA	3.27E-03	εG-HD-min	1.24E-03	Greedy-avgHD-step	1.50E-03	Roulette-HD-min	1.22E-03
εG-HD-min	3.91E-03	Roulette-HD-min	1.27E-03	εG-HD-min	1.95E-03	εG-HD	1.54E-03
εRG-HD-min	4.75E-03	Greedy-HD	1.44E-03	SIMAB-avgCA	2.46E-03	εG-HD-min	2.43E-03
SIMAB-exmCA	1.53E-02	Greedy-HD-min	1.68E-03	SIMAB-exmCA	1.39E-02	SIMAB-exmCA	3.93E-03

Table B3. Hypervolume averages of all selection strategies for large-sized test projects after ranking

commons-lang		commons-math		camel-coe		v8	
Greedy-HD	1.17E-04	Greedy-HD	1.87E-03	Greedy-HD	5.14E-04	Greedy-HD	1.34E-04
Greedy-avgHD-step	1.31E-04	Greedy-avgHD-step	2.08E-03	Greedy-avgHD-step	1.14E-03	Roulette-HD	2.32E-04
Greedy-avgHD	1.79E-04	Greedy-HD-min	2.56E-03	Greedy-avgHD	2.06E-03	Greedy-avgHD-step	2.89E-04
Greedy-HD-min	2.10E-04	Greedy-avgHD	4.63E-03	Roulette-avgHD	2.38E-03	SIMAB-avgCA	3.17E-04
εRG-avgHD-step	2.50E-04	εRG-avgHD-step	5.92E-03	Greedy-HD-min	2.56E-03	εRG-HD	3.52E-04
εRG-HD	2.73E-04	Roulette-avgHD-step	7.43E-03	Roulette-avgHD-step	3.49E-03	εRG-avgHD-step	4.35E-04
Roulette-HD	2.75E-04	SIMAB-avgCA	7.71E-03	εRG-avgHD	4.00E-03	εG-HD	4.40E-04
εG-HD	2.83E-04	εRG-HD	7.88E-03	εRG-HD	5.37E-03	Roulette-avgHD	5.23E-04
Roulette-avgHD	2.98E-04	Roulette-HD	8.80E-03	εRG-HD-min	7.54E-03	εRG-avgHD	5.62E-04
Roulette-avgHD-step	3.08E-04	εRG-avgHD	9.90E-03	Roulette-HD-min	7.79E-03	Roulette-avgHD-step	7.36E-04
εG-avgHD	3.34E-04	Roulette-avgHD	1.21E-02	εRG-avgHD-step	7.92E-03	Greedy-avgHD	7.96E-04
SIMAB-avgCA	3.68E-04	εRG-HD-min	1.24E-02	Roulette-HD	8.73E-03	εG-avgHD	1.19E-03
εG-avgHD-step	3.74E-04	εG-HD-min	1.45E-02	SIMAB-avgCA	9.11E-03	Greedy-HD-min	1.69E-03
εRG-HD-min	3.80E-04	εG-HD	1.78E-02	εG-HD	1.08E-02	SIMAB-exmCA	2.48E-03
εG-HD-min	5.22E-04	εG-avgHD	1.84E-02	εG-avgHD	1.41E-02	εG-HD-min	3.47E-03
SIMAB-exmCA	5.92E-04	Roulette-HD-min	1.88E-02	εG-HD-min	1.42E-02	εRG-HD-min	4.42E-03
Roulette-HD-min	6.95E-04	εG-avgHD-step	2.29E-02	SIMAB-exmCA	1.57E-02	Roulette-HD-min	4.74E-03
εRG-avgHD	9.09E-03	SIMAB-exmCA	2.43E-02	εG-avgHD-step	1.61E-02	εG-avgHD-step	9.17E-03